

CLAIMS

1. A silicone-based pressure-sensitive adhesive comprising:

(A) a product of partial condensation of constituents (a) and (b) or a mixture of constituents (a) and (b), where constituent (a) is a crude rubber-like organopolysiloxane

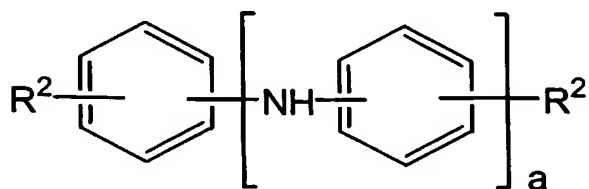
5 having an average of at least one alkenyl group per molecule, and constituent (b) is an organopolysiloxane resin consisting essentially of $R^1_3SiO_{1/2}$ units where R^1 is a substituted or unsubstituted univalent hydrocarbon group, and $SiO_{4/2}$ units, and where the mole ratio of $R^1_3SiO_{1/2}$ units to $SiO_{4/2}$ is in the range of 0.5 to 1.5;

(B) an organopolysiloxane having an average of at least two silicon-bonded hydrogen atoms per molecule, where the silicon-bonded hydrogen atoms are present in an amount of 0.5 to 150.0 moles per one mole of alkenyl groups in component (A) ;

(C) an aromatic amine compound and/or an organopolysiloxane containing aromatic amino groups, in an amount of 0.001 to 10 parts by weight for each 100 parts by weight of component (A) ; and

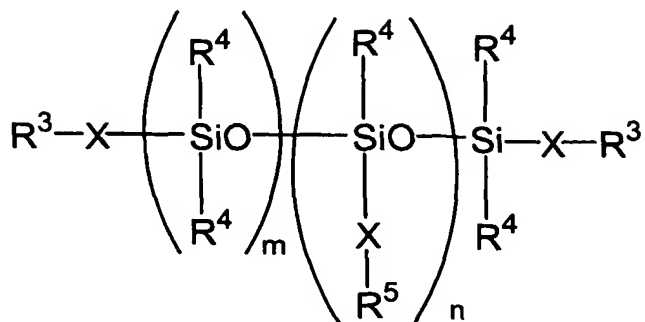
(D) a platinum catalyst in an amount sufficient to cure the adhesion.

2. A silicone-based pressure-sensitive adhesive according to Claim 1 in which the aromatic amine compound of component (C) has a general formula:



where each R^2 group is H, OH, or a univalent hydrocarbon group; and a is an integer equal to at least one.

3. A silicone-based pressure-sensitive adhesive according to Claim 1 in which the organopolysiloxane of component (C) has a general formula:



where R³ is a substituted or unsubstituted univalent hydrocarbon group or an aromatic amino group; R⁴ is a substituted or unsubstituted univalent hydrocarbon group; R⁵ is an aromatic amino group; X is a single bond, an oxygen atom, an alkylene group, or an alkyleneoxy group; m is a positive number, n is zero or a positive number; provided that when n is zero, at least one of the R³ groups is an aromatic amino group.

4. A silicone-based pressure-sensitive adhesive according to Claim 1 in which further comprising at least one curing reaction ajuster.

5. A silicone-based pressure-sensitive adhesive according to Claim 1 in which further comprising at least one solvent for components (A) thorough (D).

6. An adhesive tape comprising a support film and a pressure-sensitive adhesive layer in which the adhesive layer is formed by curing a silicone-based pressure-sensitive adhesive according to Claim 1.